## **AMENDMENTS TO THE CLAIMS**

This listing of claims will replace all prior versions of claims in the application:

## **Listing of Claims:**

- 1. (Currently Amended) A system for controller configuration and programming, comprising:
  - a controller connected to a power line network;
- a configuration device connected to Internet, wherein the configuration device and the controller utilize at least an interface to communicate over the power line <a href="network">network</a> and the Internet to enable remote controller configuration and programming, the configuration device further comprises a diagnostic tool for inconspicuously conducting data monitoring and gathering procedures without knowledge of the controller and without interfering with operating processes within the controller; and

the interface implements a peer-to-peer communication network.

- 2. (Canceled)
- 3. (Previously Presented) The system of claim 1, the interface contains a globally unique identifier and a serial number to insure unique identification.
- 4. (Previously Presented) The system of claim 3, the interface is contained within the controller.
- 5. (Previously Presented) The system of claim 1, the controller is a programmable logic controller (PLC).
- 6. (Previously Presented) The system of claim 1, the configuration device configures one or more modules associated with the controller.

- 7. (Previously Presented) The system of claim 1, the configuration device configures the controller by exchanging configuration, data, and down loading a file to the controller.
- 8. (Previously Presented) The system of claim 7, the down loaded file is an executable software program.
- 9. (Previously Presented) The system of claim 7, the down loaded file is a web page.
- 10.-35. (Canceled)
- 36. (Previously Presented) The system of claim 1, the interface is a unit separated from the controller, and the configuration device.
- 37. (Previously Presented) The system of claim 36, the power line is connected to the interface and a data communications connection can be made from the interface to particular devices.
- 38. (Currently Amended) A system for controller configuration and programming, comprising:
  - a controller connected to a power line; and
- a configuration device that can be connected to a wide area network (WAN), wherein the configuration device and the controller utilize at least an interface to communicate over the power line and the <u>wide area</u> network to enable remote controller configuration and programming, the configuration device further comprises a diagnostic tool for inconspicuously conducting data monitoring and gathering procedures without knowledge of the controller and also without interfering with operating processes within the controller.
- 39. (Previously Presented) The system of claim 38, the interface is separate from the controller and the configuration device.

- 40. (Previously Presented) The system of claim 39, the power line is connected to the interface and a data communications connection can be made from the interface to particular devices.
- 41. (Previously Presented) The system of claim 38, the WAN is the Internet.
- 42. (Previously Presented) The system of claim 38, the interface is configured using hardware, software, or a combination thereof to create a plurality of virtual networks.
- 43. (Previously Presented) The system of claim 38, the interface comprises an address component to read header data to retrieve a destination address.
- 44. (Previously Presented) The system of claim 1, the controller comprises a component to create a header for a message and thereafter input the message to the interface.
- 45. (Previously Presented) The system of claim 1, the interface comprises a filter to separate high and low frequencies outputting the high frequency to a modulator and providing the low frequencies to a connected device as power.
- 46. (Cancelled)
- 47. (Currently Amended) The system of claim [[47]] 1, the configuration device utilizes diagnostic and prognostic data in order to alter control in response to undesirable conditions in the controller.
- 48. (New) The system of claim 1, further comprising a chassis power supply connected to the power line network utilizing an interface and communicatively connected to the controller over a backplane.